

Pos.	Description	Material / Class	Size	Qty
	Pipe			
1	CS, Pipe	seamless pipe, bevelled end, schedule XS, ASME B36. 10M,ASTM A106 B	8"	40 meter
2	CS, Pipe	seamless pipe, bevelled end, schedule STD, ASME B36. 10M,ASTM A106 B	6"	40 meter
3	CS, Pipe	seamless pipe, bevelled end, schedule XS, ASME B36. 10M,ASTM A106 B	2"	12 meter
	Fittings			
1	Flange	Welding neck,bevelled ends to match pipe wall thickness,ASME B16.5,class 300RF,ASTM A105	8"	16
2	Flange	Welding neck,bevelled ends to match pipe wall thickness,ASME B16.5,class 150 RF,ASTM A105	6"	16
3	Flange	Welding neck,bevelled ends to match pipe wall thickness,ASME B16.5,class 300RF,ASTM A105	2"	4
4	Elbow 90°	Seamless long radius,bevelled ends to match pipe wall thickness, XS,ASME B16.9,ASTM A234WPB	8"	10
5	Elbow 90°	Seamless long radius,bevelled ends to match pipe wall thickness STD,ASME B16.9,ASTM A234WPB	6"	10
6	Tee	Equal Seamless,bevelled ends to match pipe wall thickness(XS),ASME B16.9,ASTM A234WPB	8"	3
7	Tee	Equal Seamless,bevelled ends to match pipe wall thickness(STD),ASME B16.9,ASTM A234WPB	6"	3
8	Tee	Equal Seamless,bevelled ends to match pipe wall thickness(80),ASME B16.9,ASTM A234WPB	2"	3
9	Blind Falnge	Blind Flange,bevelled ends to match pipe wall thickness,class 300RF,ASME B16.5,ASTM A105	8"	6
10	Blind Falnge	Blind Flange,bevelled ends to match pipe wall thickness, class 150 RF,ASME B16.5,ASTM A105	6"	6
11	Blind Falnge	Blind Flange,bevelled ends to match pipe wall thickness,class 300RF,ASME B16.5,ASTM A105	2"	4
12	Flange	Welding neck,bevelled ends to match pipe wall thickness,ASME B16.5,class 150 RF,ASTM A105	1"	4
13	Elbow 90°	Seamless long radius,bevelled ends to match pipe wall thickness STD,ASME B16.9,ASTM A234WPB	2"	2
14	Elbow 90°	Seamless long radius,bevelled ends to match pipe wall thickness, XS,ASME B16.9,ASTM A234WPB	2"	2
	GASKETS			
1	Spiral wound	ASME B 16.20/B 16.21 class 300, with SS inner and CS centering ring, SS 316L/PTFE	8"	10
2	PTFE enveloped corrugated gasket	ASME B 16.5/B 16.21 class 150, Kempchedn type PW1A-3,1.4571/PTEF	6"	10
3	PTFE enveloped corrugated gasket	ASME B 16.20/B 16.21 class 300, with SS inner and CS centering ring, SS 316L/PTFE	2"	10
4	PTFE enveloped corrugated gasket	ASME B 16.20/B 16.21 class 300, with SS inner and CS centering ring, SS 316L/PTFE	1"	10
5	GASKETS	Flat gasket, ASME B16.5 acc. to figure E3, Klinger-Sil C-4430, class 150, RF,certificate EN 10204-3.1	1"	10
	STUD BOLTS			
1	A 193-B7 /A 194-2H	Stud bolt, ASME B1.20.0, length ASME B16.5, hex nuts ANSI B 18.2.2, hot-dip galvanized ASTM A193-B7 /ASTM A194-2H	8"(7/8"/140)	96
2	A 193-B7 /A 194-2H	Stud bolt, ASME B1.20.0, length ASME B16.5, hex nuts ANSI B 18.2.2, hot-dip galvanized ASTM A193-B7 /ASTM A194-2H	6"	96
3	A 193-B7 /A 194-2H	Stud bolt, ASME B1.20.0, length ASME B16.5, hex nuts ANSI B 18.2.2, hot-dip galvanized ASTM A193-B7 /ASTM A194-2H	2"(5/8"/90)	64
4	A 193-B7 /A 194-2H	Stud bolt, ASME B1.20.0, length ASME B16.5, hex nuts ANSI B 18.2.2, hot-dip galvanized ASTM A193-B7 /ASTM A194-2H	1"(5/8"/80)	32
5	A 193-B7 /A 194-2H	Stud bolt with heavy hex nuts, ASME B16.5 / B18.2.2, A193 Gr.B7 - A194 Gr.2H, hot-dip galvanized,certificate EN 10204-3.1	1"(5/8"/90)	
	Other material			
23	Weldolet	Weldolet type XS, bevelled end to match pipe wall thickness, MSS SP-97-2001, Material ASTM A105	8"/1"	4
24	Weldolet	Weldolet type XS, bevelled end to match pipe wall thickness, MSS SP-97-2001, Material ASTM A105	6"/1"	3

Pos.	Description	Material / Class	Size	Qty
	Valves			
1	Ball valve	Reduced bore,trunnion mounted, soft seated, metal/metal sealing required for solids contaminated service, facing RF acc. To ASME B16.5, class300, ASTM A105 or ASTM A216-WCB	8"	4
2	Ball valve	Reduced bore,trunnion mounted, soft seated, metal/metal sealing required for solids contaminated service, facing RF acc. To ASME B16.5, class150t, ASTM A105 or ASTM A216-WCB	6"	4
3	Ball valve	Reduced bore,trunnion mounted, soft seated, metal/metal sealing required for solids contaminated service, facing RF acc. To ASME B16.5, class300, ASTM A105 or ASTM A216-WCB	2"	2
4	Ball valve	Reduced bore,trunnion mounted, soft seated, metal/metal sealing required for solids contaminated service, facing RF acc. To ASME B16.5, class150, ASTM A105 or ASTM A216-WCB	1"	4
5	Ball valve	Full bore, floating ball, soft seated, metal/metal sealing required for solids contaminated service, lever, facing RF acc. to ASME B16.5, class300, certificate EN 10204-3.1 ASTM A105 or ASTM A216-WCB	1"	4
6	Ball valve	Reduced bore,trunnion mounted, soft seated, metal/metal sealing required for solids contaminated service, facing RF acc. To ASME B16.5, class150, ASTM A105 or ASTM A216-WCB	2"	2

Pos.	Description	Material / Class	Size	Qty
	Valves			
1	TI	Temperature Gauge, ,Fluid is heated water, Pres Max 60 barg, Temp. Max 150 °C, Dial size 100 mm, connection 1/2" NPT male		4
2	PI	Bourdon Tube Pressure Gauges, Pressure-Range 0-25 bar, Dial size 100mm, connection size 1/2" NPT male to diapgragma seal		4
3	Pressure safty Valve	1" / 1" Set Pressure 20 barg, Flanges Class 300 RF	1"	1